ACS ARRIVAL MODING

NOTE
For ISS assembly flight 3A, this procedure is to be performed by Ground Only.

1. VERIFY ACS MODING PRE-ARRIVAL CONFIGURATION AND STATUS

NOTE
Arrival Mode initialization should be performed one hour before entering the Orbiter prox-ops phase.

PCS MCS: ACS Moding
ACS Moding
'ACS Configuration'

√Moding Role Primary, Secondary NCS - Full

```
**********************************************************************
*  If Primary/Secondary NCS Moding Role is not set to Full,          *
*    then the following commands should be sent:                     *
*                                                                    *
*       sel Moding Role                                              *
*                                                                    *
*       cmd N1-1 - Arm                                               *
*       cmd N1-2 - Arm                                               *
*      √Arm Status Primary, Secondary NCS - Arm                      *
*                                                                    *
*       cmd N1-1 - Full                                              *
*       cmd N1-2 - Full                                              *
*      √Moding Role Primary, Secondary NCS - Full                    *
*      √Arm Status Primary, Secondary NCS - Disarm                   *
**********************************************************************
```

√RS Mode Primary, Secondary NCS - Cntl

'Arrival'

√PMA2 Arrival Response SW Primary, Secondary NCS - Inh

2. ENABLE APAS LED LIGHTING

PCS MCS: ACS Moding
ACS Moding

NOTE
Each of the primary and secondary commands turns on two of the four LED ACS indication lights (i.e., 4 total). LED configuration: On - Station Active Attitude Control, Off - Software Off, Flash - Station in Free-Drift.

‘ACS Configuration’

sel LED Control SW

‘Primary NCS’

cmd Enable
√LED Control SW - Ena
√PMA2 LED State - On

‘Secondary NCS’

cmd Enable
√LED Control SW - Ena
√PMA2 LED State - On

Visual verification by Orbiter crew that LED indicators are On (-Z window).

NOTE
If Orbiter crew determines LEDs are not on, verify with **MCC-H/MCC-M** that ISS is in active attitude control.

3. ENABLE ARRIVAL SOFTWARE SWITCH MONITORING FOR ACS MODING

‘Arrival’

sel PMA2 Arrival Response SW

‘Primary NCS’

cmd Enable
√Arrival SW - Ena

‘Secondary NCS’

cmd Enable
√Arrival SW - Ena

****
* If Primary/Secondary NCS Arrival Response SW Arm needs *
* to be inhibited (wave off, etc), then the following commands *
* should be sent: *
* *
* sel PMA 2 Arrival Response SW *
* *
* ‘Primary, Secondary NCS’ *
* *
* **cmd** Inhibit - Arm *
* √Arm Status - Arm *
* *
* **cmd** Inhibit *
* √PMA 2 Arrival SW - Inh *
√Arm Status - Disarm
****

4. ATTITUDE CONTROL SYSTEM ARRIVAL MONITORING AND MODING
Verify **MCC-H/MCC-M** Go for Orbiter Arrival/Docking

Monitor the following signals during the docking phase.

'Arrival'

√PMA2 Capture Long Primary, Secondary NCS - X

√Arrival Event Primary NCS - X
√Arrival Event Secondary NCS - X

'ACS Configuration'

√RS Mode - Drift

√PMA2 LED State Primary, Secondary NCS - Flash

Visual verification by Orbiter crew that LED indicators are Flashing (-Z window).

NOTE

1. If Orbiter crew determines LEDs are not flashing, verify with **MCC-H/MCC-M** that ISS is in Free Drift.

2. The following 'Departure' signals may take up to 17 minutes before occurring.

'Departure'

√PMA2 Interface Sealed Primary, Secondary NCS - X
√PMA2 Undocking Complete Primary, Secondary NCS - Blank